Air Conditioning, Heating and Ventilating

Index to Feature Articles—1964

In this index, grouped by broad subject matter and by author, only feature articles are included excepting that Reference Data Sheets and Detail Sheets are also listed. The abbreviation *Ref. Sec.* indicates Reference Section.

This index is *not* a list of articles available in reprint form. As a matter of fact, virtually none is available.

INDEX BY SUBJECT

AIR CLEANING

Air Cleaners: Applications and Efficiency Measuring Methods, P. E. McNall, Jr., Mar., 55-59.

Applicable Codes and Requirements, R. J. Barnecut, July, 64-69.

Understanding Air Cleaner Rating Methods Aids Accurate Selection and Application, G. N. Deming, June, 59-61.

AIR CONDITIONING AND REFRIGERATION

Adapting Damper to System, H. W. Alyea and N. J. Janisse, Mar., 82-84.

Air Conditioning for Computer Areas, H. Yeh, May, 70-74.

Air Conditioning Industrial Areas, C. S. Cave, Sept., 71-73.

Air Conditioning Research and Test Facilities, Aug., 58-61.

Air Conditioning Today's Schools (Ref. Sec.), S. P. Goethe, June, 73-82.

Air Cleaners: Applications and Efficiency Measuring Methods, P. E. McNall, Jr., Mar., 55-59.

All-Electric Environmental Control System Integrates Lighting-Heating-Cooling, May, 100-101.

Climate for Peak Production, A. T. Spangler, Nov., 53-56.

Combined District Heating and Cooling, E. W. Kiss, Aug., 68.

Conference Records Significant Advances in Theory, Measurement and Control of Odors, E. H. Lindemann, Jan., 114-116.

Cooling Tower Institute Announces Commercial Certification Program, P. R. Hoffmann, Mar., 88.

Decorative Functional Spray Pools, R. F. Coyne, May, 63-69.

Design for Low-Cost Maintenance, G. F. Connell, Oct., 71-73.

Design Process, The, H. A. Friedman, July, 59-63.

Double Row Coils Provide Stable Lab Environment, Dec., 101.

Electric Heating and Cooling: Steady Progress, July, 89.

Environmental Health and Safety, F. A. Gohr, Dr. P. H., July, 52-58.

Estimating Gas Turbine Profitability (Ref. Sec.), F. Wright, Mar., 65-74.

Evaporative Coolers and Vortex Tube Cooling, Dec., 90-91.

Gas-Fired Central Heating-Cooling Selected for Luxury Apartment House, May, 99.

G. S. A. Updates Standard Airconditioning Specification, H. M. Englund, Dec., 47-48.

Guide to Engineers and Architects, Aug., 69-79.

Harvard and Steam Absorption—Air Conditioning at Harvard, N. Goodwin, Jr., Aug., 68-69.

Heat Conservation Cycle for Houston Post Office, D. S. Cooper and W. N. Meyer, Mar., 61-64.

Heat Pump Papers Cover Selection, Heat Recovery and Weather Data, J. R. Harnish, Mar., 51-55.

Heat Pumps up North, B. S. Szabo, Sept., 65-70.

High Velocity Dual Duct Systems (Ref. Sec.), N. Shataloff, Dec., 53-84.

How Equipment Heat Gain Warms Telephone Building, G. C. Blackaller, July, 94-95.

How to Provide Protection Against Corrosion in Air Conditioning Systems, P. W. Sherwood, Feb., 47-48.

Instrument Maker Keeps Exact Temperature For Millionths-of-an-inch Machine Accuracy, Nov., 97-99.

Johnson's Wax Gets First Commercial Thermoelectric Air Conditioning System, June, 88.

Lighting Heat Used to Conserve Energy, Oct., 110.

Load Selective Multizone Systems Condition Growing Telephone Building, M. Meckler, Sept., 95-98.

Make-Up Air Duct Design—A Simplified Method, K. E. Robinson, April, 53.

New Perspective With Unified Ceilings, R. F. Coyne, 79-82.

Packaged Liquid Chillers, J. C. Rose, Nov., 61-64.

Predicting Air Jet Performance (Ref. Sec.), H. H. Yousoufian, Sept., 79-86.

Publisher's Air Conditioning System Permits Flexibility in Plant Layout, Dec., 102-103.

Refrigerant Vapor Heating-Cooling System, O. S. Lieberg, Sept., 62-64.

Roof-Mounted Gas Engines Cool Apartment House, June, 91.

School Air Conditioning: To Compact Is to Air Condition, April, 66-69.

Selecting Motors for Air Conditioning Cooling Towers, T. H. Hamilton, June, 51-54.

Small Gas Turbine Used to Supply Total Energy to Space Research Laboratory, July, 96.

Specification and Design Seminar, M. A. Ramsey, **Coils that Cool and Dehumidify,** Feb., 49-51; **Sizing Coils Without Catalogs,** Mar., 89-91; **Control for All Outside Air-1,** April, 64-65; **Control for All OutsideAir-2,** May, 95-98; **Control for All Outside Air-3,** June, 92-93; **When Capacity Variations Are Extreme,** Aug., 92-94; **When Outside Wet-Bulb is Low,** Sept., 99-101; **By-Pass Factor in its Place!,** Oct., 105-107; **Control of the Inside Condition-1,** Nov., 93-96; **Control of the Inside Condition-2,** Dec., 104-106.

"Total-Electric" Heating-Cooling Used in Suburban Philadelphia Hi-Rise Apartments, W. A. Schertzer, Oct., 108-109.

Trends in Apartment Air Conditioning, The Trane Co., Aug., 49-53.

Underground Cooling Towers Serve Jet Terminal, Jan. 117-118.

Understanding Air Cleaner Rating Methods Aids Accurate Selection and Application, G. N. Deming, June, 59-61.

Variable Volume Air Conditioning, A. Shupe, Nov., 57-60.

Water for Cooling Laboratory Apparatus, C. Yost, May, 83-86.

AIR DISTRIBUTION AND DUCTWORK

Adapting Damper to System, H. W. Alyea and N. J. Janisse, Mar., 82-84.

Air Distribution in Clean Rooms, C. Sooter, May, 75-78.

Applying Static Pressure Control in Duct Systems, C. J. Busch, April, 56-59.

Building Height and Costs Lowered by Underground Air Duct, C. B. Miller, April, 60-63.

High Velocity Air Distribution, C. M. Wilson, April, 70.

High Velocity Dual Duct Systems (Ref. Sec.), N. Shataloff, Dec., 53-84.

Instruments and Procedures for Testing Air Distribution Systems (Ref. Sec.), Engineering Committee, American Industrial Hygiene Association, April, 71-80.

Make-Up Duct Design—A Simplified Method, K. E. Robinson, April, 53.

New Chart for Analyzing Dual Duct Operation, L. A. Fekete, Feb., 25-28.

New Duct Construction Standards, The (Data Sheets), Dec., 49-52.

New Perspectives With Unified Ceilings, R. F. Coyne, 79-82.

Quiet High-Velocity Air Distribution (Ref. Sec.), V. V. Cerami and N. S. Shataloff, Aug., 71-80.

Right Size Damper, The, H. W. Alyea and N. J. Janisse, Feb., 43-46.

BUSINESS OF ENGINEERING

Construction Industry Overseas, The, E. G. Pita, Nov., 51-52.

Consultants Find First Convention Rewarding, July, 90-91.

Organizing an Engineering Library, W. Dukes, Oct., 82-84.

Single or Multiple Contracts?, M. J. Horsch, Oct., 85-86.

Specification Standards and Their Value, E. P. Rossman, Oct., 79-81.

CORROSION

How to Provide Protection Against Corrosion in Air Conditioning Systems, P. W. Sherwood, Feb., 47-48.

COMBUSTION

Details of Engineering, The, B. L. Sturdevant and W. C. Battey; Part II-Forms for Combustion Calculations, Mar., 85-87.

Multistory Venting with SE-Ducts, M. D. Ringler and H. Cullinane, Sept., 55-61.

DATA AND DETAIL SHEETS

Determining Feasibility of Factory Air Conditioning, A. T. Spangler, Aug., 81-88.

Flow in Threadless Copper Pipe, A. Goldstein, Feb., 65-68.

Relation Between Velocity and Velocity Pressure for Air and Other Gases, J. K. Brasch, Jan., 109-110.

Typical Section—Prison Cell Pipe Space; Typical Plan—Infirmary Cell Pipe Space; Section A— Typical Infirmary Cell Pipe Space; Detail—New Prison Lavatory, May, 91-94.

Unit Heater Performance Factors, J. D. Constance, Jan., 107-108.

Vitreous China Urinals, Service Sink, Fountains, Nov., 85.

Vitreous China Water Closets, Lavatories and Urinals, Oct., 99-102.

Weights of Piping Materials—1, 1¼- and 1½-inch Pipe, Mar., 77-80; **2-, 2½-, 3- and 3½-inch Pipe,** April, 81-84; **4-, 5-, 6- and 8-inch Pipe,** June, 83-86; **10-, 12-, 14-, and 16-inch Pipe,** Sept., 87-90; **18-, 20-, and 24-inch Pipe,** Nov., 86-88.

DEGREE-DAYS

Degree Days for 308 Cities: For Nov. 1963, Jan., 1964, 121; for Dec. 1963, Feb., 1964, 94; for Jan. 1964, Mar., 1964, 118; for Feb., 1964, April, 1964; 113; for Mar., 1964, May, 1964, 124; for April, 1964, June, 1964, 128; for May, 1964, July, 1964, 118; for June, 1964, Aug., 1964, 113.

DETAILS OF ENGINEERING

Details of Engineering, The, B. L. Sturdevant and W. C. Battey; **Part II-Forms for Combustion Calculations,** Mar., 85-87.

ELECTRIC HEATING

All-Electric Environmental Control System Integrates Lighting-Heating-Cooling, May, 109-101.
Competitive House Heating with Electricity, E. R. Ambrose, Mar., 50.
Electric Heating and Cooling: Steady Progress, July, 89.
Heat Conservation Cycle for Houston Post Office, D. S. Cooper and W. N. Meyer, Mar., 61-64.
Heat Pump Papers Cover Selection, Heat Recovery and Weather Data, J. R. Harnish, Mar., 51-55.
Heat Pumps Up North, B. S. Szabo, Sept., 65-70.
Hospital "in the Round" Uses All-Air, Electric Reheat System, July, 92.
Johnson's Wax Gets First Commercial Thermoelectric Air Conditioning System, June, 88.
Lighting Heat Used to Conserve Energy, Oct., 110.

FANS AND BLOWERS

How to Select a Quiet In-Line Centrifugal Fan, R. A. Benoit, April, 54-55.
How to Select Centrifugal Fans for Quiet Operation, C. J. Trickler, Dec., 85-89.
NEMA Revises Electric Motor Standards, June, 87.
Open-Type Electric Motors Chosen for Tunnel Ventilation Fans, A. E. Lambert, Jr., June, 90.

FUEL AND ENERGY ESTIMATING

Degree Days for 308 Cities: For Nov. 1963, Jan., 1964, 121; for Dec., 1963, Feb., 1964, 94; for Jan., 1964, Mar., 1964, 118; for Feb., 1964, April, 1964, 113; for Mar., 1964, May, 1964, 124; for April, 1964, June, 1964, 128; for May, 1964, July, 1964, 118; for June, 1964, Aug., 1964, 113.

GAS HEATING

Gas Infrared Heaters Provide Comfort Heating at Virginia Plant; Fuel Savings Result, Aug., 89-91.
Multistory Venting with SE-Ducts, M. D. Ringler and H. Cullinane, Sept., 55-61.

HOSPITALS

Applicable Codes and Requirements, R. J. Barnecut, July, 64-69.
Design Process, The, H. A. Friedman, July, 59-63.
Hospital "in the Round" Uses All-Air, Electric Reheat System, July, 92.
Hospital Power Plants, H. J. Heger, July, 70-76.
Installation of Copper Tube for Oxygen Service, Feb., 63-64.
New Standard for Hospital Plumbing, June, 63-68.
Piping for Hospital Distribution Systems, G. Kasin, July, 77-82.
Water Treatments Keep Hospital Air Conditioning Operating, July, 93.

HOUSING

Competitive House Heating with Electricity, E. R. Ambrose, Mar., 50.
Gas-Fired Central Heating-Cooling Selected for Luxury Apartment House, May, 99.
Roof-Mounted Gas Engines Cool Apartment House, June, 91.
"Total-Electric" Heating-Cooling Used in Suburban Philadelphia Hi-Rise Apartments, W. A. Schertzer, Oct., 108-109.
Trends in Apartment Air Conditioning, The Trane Co., Aug., 49-53.

INDUSTRIAL PLANTS

Air Conditioning for Computer Areas, H. Yeh, May, 70-74.
Air Conditioning Industrial Areas, C. S. Cave, Sept., 71-73.
Air Distribution in Clean Rooms, C. Sooter, May, 75-78.
Building Height and Costs Lowered by Underground Air Duct, C. B. Miller, April, 60-63.
Climate for Peak Production, A. T. Spangler, Nov., 53-56.
Design Considerations for Industrial Makeup Air, Heat Conservation and Recovery (Ref. Sec)., Engineering Committee, American Industrial Hygiene Association, Feb. 29-41.
Determining Feasibility of Factory Air Conditioning (Data Sheets), A. T. Spangler, Aug., 81-88.
Evaporative Coolers and Vortex Tube Cooling, Dec., 90-91.
Gas Infrared Heaters Provide Comfort Heating at Virginia Plant; Fuel Savings Result, Aug., 89-91.
How Equipment Heat Gain Warms Telephone Building, G. C. Blackaller, July, 94-95.
Instrument Maker Keeps Exact Temperature for Millionths-of-an-Inch Machine Accuracy, Nov., 97-99.
Load Selective Multizone Systems Condition Growing Telephone Building, M. Meckler, Sept., 95-98.
Publisher's Air Conditioning System Permits Flexibility in Plant Layout, Dec., 102-103.
Underground Cooling Towers Serve Jet Terminal, Jan. 117-118.
Ventilation of Plating, Pickling and Anodizing Tanks, G. M. Hama, April, 51.

LABORATORIES

Air Conditionng Research and Test Facilities, Aug., 58-61.
Double Row Coils Provide Stable Lab Environment, Dec., 101.
Laboratory Hood Ventilation, R. S. Brief, April, 51-53.
Plumbing Utilities for A Science Laboratory, M. R. Perozzi, May, 87-89.
Small Gas Turbine Used to Supply Total Energy to Space Research Laboratory, July, 96.
Water for Cooling Laboratory Apparatus, C. Yost, May, 83-86.

MOTORS

NEMA Revises Electric Motor Standards, June, 87.
Open-Type Electric Motors Chosen for Tunnel Ventilation Fans, A. E. Lambert, Jr., June, 90.
Selecting Motors for Air Conditioning Cooling Towers, T. H. Hamilton, June, 51-54.

ODOR CONTROL

Conference Records Significant Advances in Theory, Measurement and Controls of Odors, E. H. Lindemann, Jan., 114-116.

PIPING AND PLUMBING

Consensus on Service Hot Water, V. J. Pantuso, Feb., 52-62.
Copper Tube Types Compared, H. E. Voegeli, April, 89.
Decorative/Functional Spray Pools, R. F. Coyne, May, 63-69.
Design for Low-Cost Maintenance, G. F. Connell, Oct., 71-73.
Developments in Sanitary Drainage, H. Voegeli, Dec., 95-96.
Economy in Plumbing Design, W. G. Spathias, Sept., 74-75.
Flow in Threadless Copper Pipe (Data Sheets), A. Goldstein, Feb., 65-68.
Graphs of Coil Heating Surface for Service Hot Water Storage Generators, W. P. Bishop and D. Jelovcich, Nov., 69-72.
High Temperature Water with Packaged Pressurizing Units—Design Considerations, J. N. Saunders, Aug., 54-57.
How About an All-Purpose Copper Tube?, H. E. Voegeli, Sept., 76-77.
How Long Will Copper Drainage Tube Last?, J. E. McGinness, Jr., April, 85-88.
Installation of Copper Tube for Oxygen Service, Feb., 63-64.
New Standard for Hospital Plumbing, June, 63-68.
Notes on Design for Compressed Air, A. J. Ferrara, Aug., 62-66.
Operating Problems with High Temperature Water, J. S. Blossom, Ziel-Blossom & Associates, June, 58.
Piping for Hospital Distribution Systems, G. Kasin, July, 77-82.
Piping for Plumbing Concerns ASSE Annual Meeting; Review of Refresher Course Papers Continues, Jan., 111-113.
Plumbing Utilities for A Science Laboratory, M. R. Perozzi, May, 87-89.
Problems with Altitude Valves, A. Koral, Dec., 92-94.
Proposed New York City Plumbing Code Would Permit Many New Piping Materials, Tankless Systems, and New Type Inspections, July, 87-88.
Shop Fabrication of Piping Increases Contractor's Output, Sept., 78.
Should We Specify Water Treatment?, S. A. Littmann, Oct., 74-78.
Simplified Stress Analysis for Piping Systems, L. Maurer, J. P. Mason and L. B. Young, Oct., 94-98.
Sizing Vertical Flash Tanks; Poor Steam Circulation: Its Causes and Cures (Data Sheets), R. E. Bolaffio, July, 83-86.
Training Program for Plumbing Designers, Oct., 103-104.
Typical Section—Prison Cell Pipe Space; Typical Plan—Infirmary Cell Pipe Space; Section A—Typical Infirmary Cell Pipe Space; Detail—New Prison Lavatory (Data Sheets), May, 91-94.
Underground Heat Distribution Systems, F. A. Govan, Aug., 67.
Use Sewage Ejectors—Where Required, A. Koral, Mar., 75-76.
Vitreous China Urinals, Service Sink, Fountains (Data Sheet), Nov., 85.
Vitreous China Water Closets, Lavatories and Urinals (Detail Sheets), Oct., 99-102.
Water Named the Villain in Underground Piping Systems, E. G. Hansen, Mar., 60.
Weights of Piping Materials (Data Sheets)—1-, 1¼- and 1½-inch pipe (Data Sheets), Mar., 77-80; 2-, 2½-, 3- and 3½-inch Pipe, Apr., 81-84; 4-, 5-, 6- and 8-inch Pipe, June, 83-86; 10-, 12-, 14- and 16-inch Pipe, Sept., 87-90; 18-, 20-, and 24-inch Pipe, Nov., 86-88.

POWER PLANTS

Hospital Power Plants, H. J. Heger, July, 70-76.
Power Plant Auxiliary Areas, D. H. Roethenbach, Dec., 97-100.
Power Plant Building Services Design, D. H. Roethenbach, 91-94, Sept.
Power Plant Heating System Design Eliminates Below 40F Outside Air, D. H. Roethenbach, Feb., 42-43; Power Plant Building Services Design, Sept., 91-94; Area 1—The Turbine Room, Nov., 89-92.

REFERENCE SECTIONS

Air Conditioning Today's School, S. P. Goethe, June, 73-82.
Design Considerations for Industrial Makeup Air, Heat Conservation and Recovery, Engineering Committee, American Industrial Hygiene Association, Feb., 29-41.
Estimating Gas Turbine Profitability, F. Wright, Mar. 65-74.
Estimating Industrial/Commercial Steam Needs, Nov., 73-84.
Instruments and Procedures for Testing Air Distribution Systems, Engineering Committee, American Industrial Hygiene Association, April, 71-80.
Predicting Air Jet Performance, H. H. Yousoufian, Sept., 79-86.
Quiet High-Velocity Air Distribution, V. V. Cerami and N. S. Shataloff, Aug., 71-80.

SCHOOLS AND COLLEGES

Harvard and Steam Absorption—Air Conditioning at Harvard, N. Goodwin, Jr., Aug., 68-69.
High Temperature Water from Steam Boilers Serves Single-Building High School, J. Richardson, Feb., 69-70.
School Air Conditioning: To Compact Is to Air Condition, April, 66-69.
Statistics on College Air Conditioning Released, June, 62.

SERVICE HOT WATER

Consensus on Service Hot Water, V. J. Pantuso, Feb., 52-62.
Graphs of Coil Heating Surface for Service Hot Water Storage Generators, W. P. Bishop and D. Jelovcich, Nov., 69-72.

SPECIFICATION AND DESIGN SEMINAR

Specification and Design Seminar, M. A. Ramsey, **Coils that Cool and Dehumidify,** Feb., 49-51; **Sizing Coils Without Catalogs,** Mar., 89-91; **Control for All Outside Air-1,** April, 64-65; **Control for All Outside Air-2,** May, 95-98; **Control for All Outside Air-3,** June, 92-93; **When Capacity Variations are Extreme,** Aug., 92-94; **When Outside Wet-Bulb is Low,** Sept., 99-101; **By-Pass Factor in its Place!,** Oct., 105-107; **Con-**

trol of the Inside Condition-1, Nov., 93-96; **Control of the Inside Condition-2,** Dec., 104-106.

STEAM AND HOT WATER HEATING

Combined District Heating and Cooling, E. W. Kiss, Aug., 68.
Estimating Industrial/Commercial Steam Needs (Ref. Sec.), Nov., 73-84.
Graphical Analysis of Hydronic Systems, N. Holbay, Mar., 45-49.
High Temperature Water for Steam Boilers Serves Single-Building High School, J. Richardson, Feb., 69-70.
High Temperature Water with Packaged Pressurizing Units—Design Considerations, J. N. Saunders, Aug., 54-57.
Operating Problems with High Temperature Water, J. S. Blossom, Ziel-Blossom & Associates, June, 58.
Power Plant Heating System Design Eliminates Below 40F Outside Air, D. H. Roethenbach, Feb., 42-43; **Power Plant Building Services Design,** Sept., 91-94; **Area 1—The Turbine Room,** Nov., 89-92.
Report from National District Heating Association Annual Meeting, Aug., 67-70.
Selecting Unit Heaters for Hot Water Systems, R. E. Lee, April, 47-50.
Sizing Vertical Flash Tanks; Poor Steam Circulation: Its Causes and Cures (Data Sheets), R. E. Bolaffio, July, 83-86.
Underground Heat Distribution Systems, F. A. Govan, Aug., 67.
Unit Heater Performance Factors (Data Sheet), J. D. Constance, Jan., 107-108.

VENTILATION AND AIR HANDLING

AIHA Papers Cover Building Inlets and Outlets, Road Tunnels, and Bombs in the Basement, June, 70-71.
Applying Static Pressure Control in Duct Systems, C. J. Busch, April, 56-59.
Design for Radiation Safety, W. J. Thon, Oct., 87-93.
High Velocity Air Distribution, C. M. Wilson, April, 70.
How to Select a Quiet In-Line Centrifugal Fan, R. A. Benoit, April, 54-55.
How to Select Centrifugal Fans for Quiet Operation, C. J. Trickler, Dec., 85-89.
Laboratory Hood Ventilation, R. S. Brief, April, 51-53.
New Chart for Analyzing Dual Duct Operation, L. A. Fekete, Feb., 25-28.
New Duct Construction Standards, The, (Data Sheets), Dec., 49-52.
Power Plant Auxiliary Areas, D. H. Roethenbach, Dec., 37-100.
Power Plant Building Services Design, D. H. Roethenbach, Sept., 91-94.
Relation Between Velocity and Velocity Pressure for Air and Other Gases (Data Sheet), J. K. Brasch, Jan., 109-110.
Right Size Damper, The, H. W. Alyea and N. J. Janisse, Feb., 43-46.
Ventilation of Plating, Pickling and Anodizing Tanks, G. M. Hama, April, 51.

WATER AND WASTE TREATMENT

Should We Specify Water Treatment?, S. A. Littmann, Oct., 74-78.
Use Sewage Ejectors—Where Required, A. Koral, Mar., 75-76.
Water Treatments Keep Hospital Air Conditioning Operating, July, 93.

INDEX BY AUTHORS

Alyea, H. W. and **Janisse, N. J.,** Johnson Service Co.—The Right Size Damper, Feb., 43-46; Adapting Damper to System, Mar., 82-84.
Ambrose, E. R., Head, Heating and Air Conditioning Dev., American Electric Power Service Corp.—Competitive House Heating with Electricity, Mar., 50.
Barnecut, R. J., Engineering Consultant, California State Department of Public Health—Applicable Codes and Requirements, July, 64-69.
Battey, W. C., Chief Draftsman, Design Group, and **Sturdevant, B. L.,** Head of Industrial Dept., Stanley Engineering Co.—The Details of Engineering, Part II—Forms for Combustion Calculations, Mar., 85-87.
Benoit, R. A., Dryer Dynamics Corp.—How to Select a Quiet In-Line Centrifugal Fan, April, 54-55.
Bishop, W. P., and **Jelovcich, D.,** Joseph P. Wohlpart Associates—Graphs of Coil Heating Surface for Service Hot Water Storage Generators, Nov., 69-72.
Blackaller, G. C., Building Engineer, Pacific Northwest Bell—How Equipment Heat Gain Warms Telephone Building, July, 94-95.
Blossom, J. S., Ziel-Blossom & Associates—Operating Problems with High Temperature Water, June, 58.
Bolaffio, R. E., Sarco Company, Inc.—Sizing Vertical Flash Tanks; Poor Steam Circulation: Its Causes and Cures (Data Sheets), July, 83-86.
Brasch, J. K., University of Michigan School of Public Health, Department of Industrial Health—Relation Between Velocity and Velocity Pressure for Air and Other Gases (Data Sheet), Jan., 109-110.
Brief, R. S., Senior Industrial Hygienist, Medical Research Div., Esso Research and Engineering Co.—Laboratory Hood Ventilation, April, 51-53.
Busch, C. J., Application Engineer, Barber-Colman Co.—Applying Static Pressure Control, April, 56-59.
Cave, C. S., Manager, Application and Technical Data, Airtemp Div., Chrysler Corp.—Air Conditioning Industrial Areas, Sept., 71-73.
Cerami, V. V., Senior Consultant, Michael J. Kodaras, Inc., and **Shataloff, N. S.,** Consultant, Buensod-Stacey Corp.—Quiet High-Velocity Air Distribution (Ref. Sec.), Aug., 71-86.
Connell, G. F., Senior Design Engineer, Giffels & Rossetti—Design for Low-Cost Maintenance, Oct., 71-73.
Constance, J. D., Professional Engineer—Unit Heater Performance Factors (Data Sheet), Jan., 107-108.
Cooper, D. S., Consulting Engineer, and **Meyer, W. N.,** Chief, Utilities Div., U. S. Post Office Dept.—Heat Conservation Cycle for Houston Post Office, Mar., 61-64.
Coyne, R. F., Project Manager, Albert C. Martin and Associates—Decorative/Functional Spray Pools, May, 63-69; New Perspectives with Unified Ceilings, May, 79-82.
Cullinane, H., Asst. Utilization Engineer, and **Ringler, M. D.,** Utilization Engineer, American Gas Association—Multistory Venting with SE-Ducts, Sept., 55-61.
Deming, G. N., Director of Research and Development, Burke and Company—Understanding Air Cleaner Rating Methods Aids Accurate Selection and Application, June, 59-61.
Distelhorst, S. D., Willson Products Div., Ray-O-Vac Co.—Estimatinng Industrial/Commercial Steam Needs (Ref. Sec.), Nov., 73-84.
Dukes, W., Librarian, Giffels & Rossetti—Organizing an Engineering Library, Oct., 82-84.
Engineering Committee, American Industrial Hygiene Association—Design Considerations for Industrial Makeup Air, Heat Conservation and Recovery (Ref. Sec.), Feb., 29-41; Instruments and Procedures for Testing Air Distribution Systems (Ref. Sec.), April, 71-80.
Fekete, L. A., Engineer, Brown & Root—New Chart for Analyzing Dual Duct Operation, Feb., 25-28.
Ferrara, A. J., Designer-Engineer, Engineering Dept., E. I. du Pont de Nemours & Co., Inc.—Notes on Design for Compressed Air, Aug., 62-66.
Friedman, H. A., Schubart & Friedman—The Design Process, July, 59-63.
Gohr, Dr. Frank A., Office of Environmental Health and Safety, University of California Medical Center—Environmental Health and Safety, July, 52-58.
Goldstein, A., Plumbing Chief, Joseph P. Loring—Flow in Threadless Copper Pipe (Data Sheet), Feb., 65-68.
Govan, F. A., Assistant Director, Building Research Advisory Board—Underground Heat Distribution Systems, Aug., 67.
Hama, G. M., Senior Industrial Hygienist, Bureau of Industrial Hygiene, Detroit—Ventilation of Plating, Pickling and Anodizing Tanks—April, 51.
Hamilton, T. H., Chief Thermal Engineer, Fluor Products Co., Inc.—Selecting Motors for Air Conditioning Cooling Towers, June, 51-54.
Heger, H. J., Chief Engineer, Buonaccorsi & Murray—Hospital Power Plants, July, 70-75.
Hoffmann, P. R., President, Cooling Tower Institute—Cooling Tower Institute Announces Commercial Certification Program, Mar., 58.
Holbay, N., Sales Engineering Dept., York Corp.—Graphical Analysis of Hydronic Systems, Mar., 45-49.
Horsch, M. J., Chief Specification Writer, Giffels & Rossetti—Single or Multiple Contracts?, Oct., 85-86.
Janisse, N. J. and **Alyea, H. W.,** Johnson Service Co.—The Right Size Damper, Feb., 43-46; Adapting Damper to System, Mar., 82-84.
Jelovcich, D., and **Bishop, W. P.,** Joseph P. Wohlpart Associates—Graphs of Coil Heating Surface for Service Hot Water Storage Generators, Nov., 69-72.
Kasin, G., Kasin, Guttman & Associates—Piping for Hospital Distribution Systems, July, 77-82.
Kiss, E. W., Combustion Engineering—How the Hartford Scheme Works, Aug., 68-69.
Koral, A., Plumbing Designer, Fellheimer & Wagner—Use Sewage Ejectors—Where Required, Mar., 75-81.
Lee, R. E., Manager, Unit Heater Dept., The Trane Co.—Selecting Unit Heaters, April, 47-50.
Lieberg, O. S., Consulting Engineer—New Designs For High Temperature Water, June, 55-57; Refrigerant Vapor Heating-Cooling Systems Sept., 62-64.
Lindemann, E. H., Chief Chemical Engineer, Honeywell Temperature Controls Group—Conference Records Significant Advances in Theory, Measurement and Control of Odors, Jan., 114-116.
Littmann, S. A., Vice President and Chief Mechanical Engineer, Giffels & Rossetti—Should We Specify Water Treatment?, Oct., 74-78.
McGinness, Jr., J. E., Reg. F. Taylor and John E. McGinness, Jr., Consulting Engineers—How Long Will Copper Drainage Tube Last?, April, 85-86.
Mason, J. P., Project Director; **Young, L. B.,** Senior Design Engineer; and **Maurer, L.,** Senior Design Engineer, Giffels & Rossetti—Simplified Stress Analysis for Piping Systems, Oct., 94-98.
Maurer, L., Senior Design Engineer; **Mason, J. P.,** Project Director; and **Young, L. B.,** Senior Design Engineer, Giffels & Rossetti—Simplified Stress Analysis for Piping Systems, Oct., 94-98.
Meckler, M., Senior Mechanical Engineer, Daniel, Mann, Johnson & Mendenhall—Load Selective Multizone Systems Condition Growing Telephone Building, Sept., 95-98.
Meyer, W. N., Chief, Utilities Div., U. S. Post Office Dept., and **Cooper, D. S.,** Consulting Engineer—Heat Conservation Cycle for Houston Post Office, Mar., 61-64.
Miller, C. B., Professional Engineer, Bechtel Associates—Building Height and Costs Lowered By Underground Air Duct, April, 60-62.
Paatuso, V. J., Plumbing Chief, Urbahn, Roberts, Seelye and Moran—Consensus on Service Hot Water, Feb., 52-62.
Perozzi, M. R., Division Mechanical Engineer, Albert C. Martin and Associates—Plumbing Utilities for a Science Laboratory, May, 87-89.
Pita, E. G., Assistant Professor of Mechanical Engineering, Manhattan College—The Construction Industry Overseas, Nov., 51-52.
Ramsey, M. A., Consulting Engineer, Air Conditioning and Refrigeration Div., Worthington Corp.—Specification and Design Seminar: Coils that Cool and Dehumidify—Feb., 49-51; Sizing Coils Without Catalogs, Mar., 89-91; Control for All Outside Air-1, April, 64-65; Control for All Outside Air-2, May, 95-98; Control for All Outside Air-3, June, 92-93; When Capacity Variations are Extreme, Aug., 92-94; When Outside Wet-Bulb is Low, Sept., 99-101; Control of the Inside Condition-1, Nov., 93-96; Control of the Inside Condition-2, Dec., 104-106.
Richardson, J., President, Midwestern Engineers, Inc.—High Temperature Water from Steam Boilers Serves Single-Building High School, Feb., 69-70.
Ringler, M. D., Utilization Engineer, and **Cullinane, H.,** Asst. Utilization Engineer, American Gas Association—Multistory

Venting with SE-Ducts, Sept., 55-61.
Robinson, K. E., Ventilation Consultant, Industrial Hygiene Dept. Personnel Staff, General Motors Corp.—Make-Up Air Duct Design—A Simplified Method, April, 53.
Roethenbach, D. H., HVAC Engineer, Ebasco Services Inc. — Power Plant Heating System Design Eliminates Below 40 F Outside Air, Feb., 42-43; Power Plant Buildingn Services Design, Sept., 91-94; Area 1—The Turbine Room, Nov., 89-92; Power Plant Auxiliary Areas, Dec., 97-100.
Rose, J. C., Product Sales Manager, Acme Industries, Inc.—Packaged Liquid Chillers, Nov., 61-64.
Rossman, E. P., Chief Mechanical Specification Writer, Giffels & Rossetti—Specification Standards and Their Value, Oct., 79-81.
Saunders, J. N.—High Temperature Water with Packaged Pressurizing Units—Design Considerations, Aug., 54-57.
Schertzer, W. A., Construction Systems Engineer, Westinghouse Electric Corporation —"Total-Electric" Heating-Cooling Used in Suburban Philadelphia Hi-Rise Apartments, Oct., 108-109.
Shataloff, N. S., Consultant, Buensod-Stacey Corp., and **Cerami, V. V.,** Senior Consultant, Michael J. Kodaras, Inc. — Quiet High-Velocity Air Distribution (Ref. Sec.), Aug., 71-80; High Velocity Dual Duct Systems (Ref. Sec.), Dec., 53-84.
Sherwood, P. W., Consulting Chemical Engineer—How to Provide Protection Against Corrosion in Air Conditioning Systems, Feb., 47-48.
Shuper, A., Anatole Shuper and Associates, Ltd.—Variable Volume Air Conditioning, Nov., 57-60.
Sooter, C., Senior Mechanical Designer, Albert C. Martin and Associates—Air Distribution in Clean Rooms, May, 75-78.
Spangler, A. T., Senior Application Engineer, Carrier Air Conditioning Co.—Determining Feasibility of Factory Air Conditioning (Data Sheets), Aug., 81-88; Climate for **Peak** Production, Nov., 53-56.
Spathias, W. G., Head, Sanitary Dept., Sidney W. Barbanel, Consulting Engineer — Economy in Plumbing Design, Sept., 74-75.
Steffens, R., Senior Mechanical Designer, Albert C. Martin and Associates—A New Prison Lavatory, May, 90.
Sturdevant, B. L., Head of Industrial Dept., and **Battey, W. C.,** Chief Draftsman, Design Group, Stanley Engineering Co. — The Details of Engineering, Part II—Forms for Combustion Calculations, Mar. 85-87.
Szabo, B. S., Commercial-Industrial Sales Engineer, The Hydro-Electric Power Commission of Ontario — Heat Pumps up North, Sept., 65-70.
Thon, W. J., Project Director, Giffels & Rossetti — Design for Radiation Safety, Oct., 87-93.
Voegeli, H. E., Development Engineer — Copper Tube Types Compared, April, 89; How About an All-Purpose Copper Tube?, Sept., 76-77.
Yeh, H., Division Mechanical Engineer, Albert C. Martin and Associates—Air Conditioning for Computer Areas, May, 70-74.
Yost, C., Senior Plumbing Designer, Albert C. Martin and Associates—Water for Cooling Laboratory Apparatus, May, 83-86.
Young, L. B., Senior Design Engineer; **Maurer, L.,** Senior Design Engineer; and **Mason, J. P.,** Project Director, Giffels & Rossetti—Simplified Stress Analysis for Piping Systems, Oct., 94-98.
Yousoufian, H. H., Air Conditioning Div., Worthington Air Conditioning Co.—Predicting Air Jet Performance (Ref. Sec.), Sept., 79-86.

Air Conditioning, Heating and Ventilating

93 Worth St., New York 13, N. Y.